



CLEARING THE AIR

An APCD Workshop Series

- July 16** **APCD 101/Louisville's Air Quality**
- July 30** **Air Quality & Health/Reducing My Pollution Impact**
- Aug. 13** **Odors: Reporting and Responding**
- Aug. 27** **The APCD Regulatory Process**
- Sept. 10** **How We Monitor Air Quality**
- Sept. 22** **Understanding Risk: A Technical Workshop***
 (How to use EJ Screen, TRI, and other EPA data tools)
- Sept. 24** **The STAR Program/Environmental Justice**

QUESTIONS?
Call us at
(502) 574-6000

Workshops held at the Louisville Free Public Library, 301 York St.
Each session is 5:30-7 p.m.

*(*Technical Workshop 10 a.m.-2 p.m. Registration Required. Send email to ClearingTheAir@louisvilleky.gov)*

www.louisvilleky.gov/APCD



CLEARING THE AIR

An APCD Workshop Series

The APCD Workshop Series seeks to:

- Increase the community's understanding of Louisville's air quality and of APCD's many functions
- Provide information that will **empower** citizens
- Provide a more informal forum for Q&A with APCD and opportunity for feedback
- Improve related public outcomes



CLEARING THE AIR

An APCD Workshop Series

Today's workshop seeks to:

1. Help the community better understand the different **sources of odors** in Louisville Metro and how to best report odors
2. Discuss how APCD and others in Louisville Metro **respond to odors**
3. Explore what steps APCD—with reporting help from the community—is taking to **better respond to odors** in Louisville Metro



CLEARING THE AIR

An APCD Workshop Series

- There are no silly questions

- Public Participation =



- Interactive

- Ask questions throughout the workshop as they come to mind
- Send feedback via email to Clearingtheair@louisvilleky.gov (also email to register to attend “*Understanding Risk: A Technical Workshop*” on Saturday, Sept. 22, 10-2 pm)

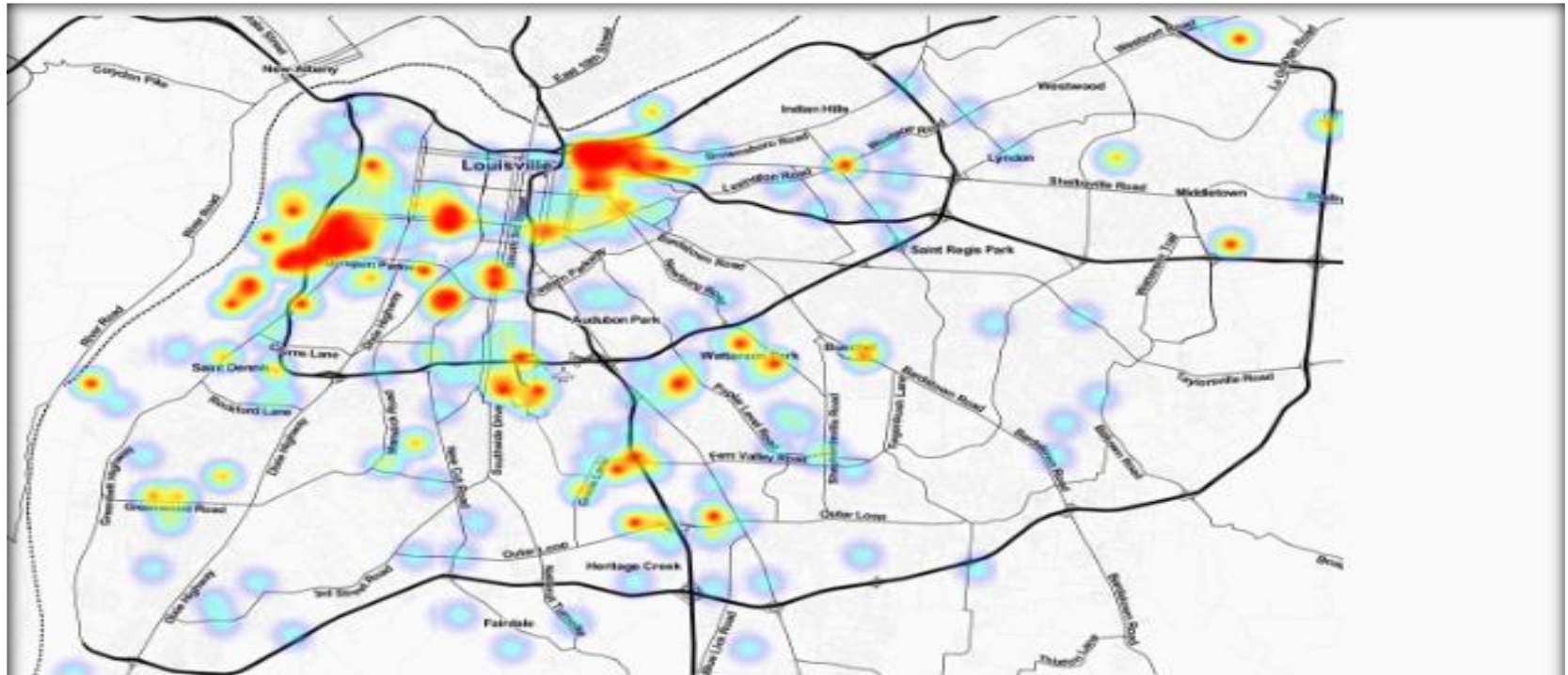


Odors: Reporting and Responding

Air Pollution Control District
August 13, 2018



Odor Complaints in Louisville

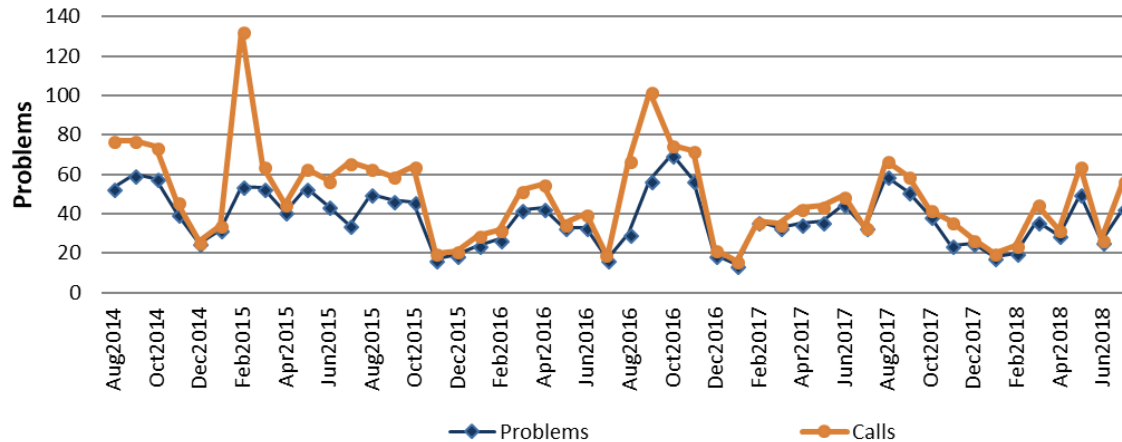


This shows locations of most of the odor complaints confirmed by the Louisville Air Pollution Control District from 2012 through 2017. Areas showing red had the most complaints.

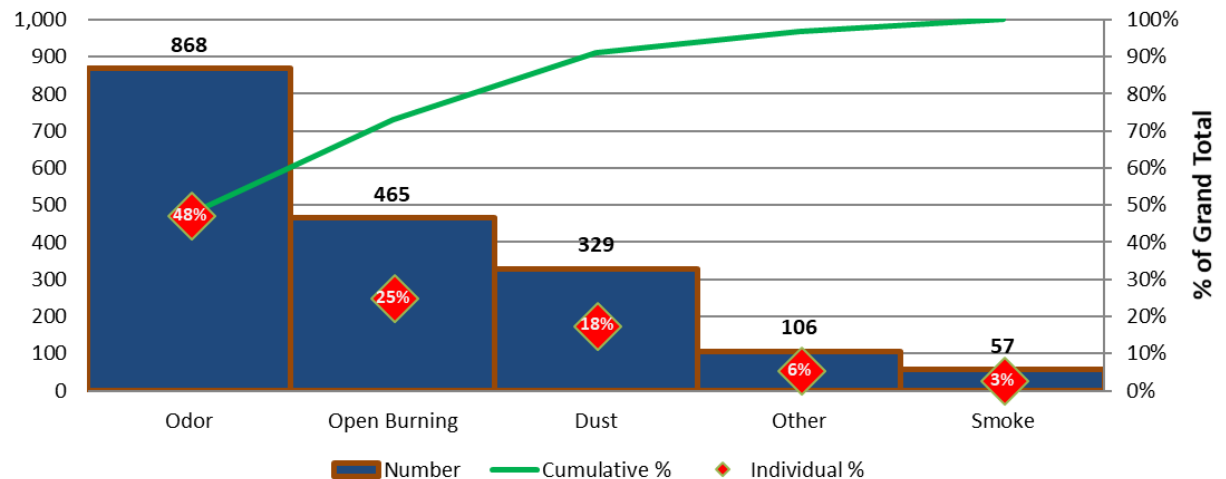
Photo: Courier Journal

Complaints by the Numbers

Community Complaints Aug 2014 - July 2018



Aug 2014-July 2018 By Complaint Type



Sources of Objectionable Odors

Objectionable odors can come from **many** sources:

- **Animal operations:** Livestock hauling, food processing, tanning (leather)
- **Industry:** Landfills, chemical manufacturing operations, wastewater treatment plants, painting, commercial cooking, distilleries
- **Nature:** Compost, wet soil, forest fires, trees
- **Vehicles:** Diesel exhaust, garbage trucks, burning oil
- **Other:** Restaurants, spray paint, meth house, sewers

Control of Objectionable Odors

Regulation 1.13 *Control of Objectionable Odors in the Ambient Air*

No person shall emit or cause to be emitted into the ambient air any substance that creates an objectionable odor beyond the person's property line.

Control of Objectionable Odors

Regulation 1.13 Control of Objectionable Odors in the Ambient Air

An odor will be deemed objectionable when documented investigation by the District includes, as a minimum:

- Observations on the odor's nature, intensity, duration, and location, and
- Evidence that the odor causes injury, detriment, nuisance, or annoyance to persons or to the public

Reporting Objectionable Odors

In Louisville, our standard is community-based:

We need to hear from you.



Reporting Odors Impacting Your Immediate Health or Safety

If an odor is affecting your immediate health and safety – such as burning your eyes or causing physical discomfort – immediately call

911

Reporting Objectionable Odors

- Air Pollution Control District
- MSD
- MetroCall 311



AIR POLLUTION
CONTROL DISTRICT



Reporting Objectionable Odors: APCD

■ Phone

- (502) 574-6000 or (502) 574-7321
- 24 hours a day, 7 days per week
- If outside of office hours please leave a message

■ Electronically

- Email APCD at airodors@louisvilleky.gov
- MetroCall311 [online portal](#)



The screenshot shows the 'Customer Service Center' website for Louisville Metro. The header includes the 'LOUISVILLE METRO311' logo and the 'msd' logo with the tagline 'Safe, clean waterways'. Below the header, there is a section for 'Sign In' with fields for 'User Name' and 'Password', and a 'Remember me on this computer' checkbox. There are also links for 'Sign In', 'Sign In Anonymously', 'Forgot your password? Click here', and 'First time here? Enroll'. On the left side, there is a 'Look Up Service Request' section with a photo of a man at a desk and a list of instructions: 'If you have an account, enter your user name and password and click "Sign In". Otherwise click on "Sign In Anonymously". Signing in anonymously will only allow you to lookup applications.', 'If you have an account but can't remember your password. Click here.', and 'If you are new to the system, click on Enroll'.

Reporting Objectionable Odors:

- Please provide as many details as possible:
 - Location, time, nature, weather, likely source

An odor log is an easy way to track odors

AIR POLLUTION CONTROL DISTRICT

ODOR LOG

INTENSITY SCALE

1 Slight: Odor is detectable and can be described by its characteristics or can be distinguished from other odors.

2 Moderate: Odor is strong enough to block the other odors, but is not so strong as to make someone try to avoid the odor.

3 Strong: A person would take a positive action to attempt to avoid the odor.

4 Very Strong: The odor produces physiological effects, such as nausea, difficulty of breathing, irritation of the eyes, nose, throat, or the level at which a residual smell remains after the odor is gone.

REPORT ODORS IMMEDIATELY TO APCD (502) 574-6000

Date	Start Time	End Time	Location (address, street intersection, etc.)	Type of Odor	Intensity	Impact on People	Other Observations	Date/Time Reported to APCD

www.louisvilleky.gov/APCD

ODOR

Sometimes, a city is a smelly place. Odors are part of life in a major metropolitan area. But when a smell becomes unbearable, the Air Pollution Control District will try to help.

1. If you believe an odor is affecting your health and safety, call 911 immediately.
2. Otherwise, contact APCD to report an offensive odor. Use the phone number or email below.
3. Help us track the odor. Tell us where and when you noticed it, and how long it lasted.
4. Note characteristics like "strong," "sewer-like," "chemical," "burnt," "flowery," etc.
5. Write down your observations, if possible.

APCD investigators will check out your complaint and, if warranted, can cite violators who fail to address the problem.

(502) 574-7321
air@louisvilleky.gov



Reporting and Responding to Objectionable Odors: MSD

Daymond Talley, Assistant Director-
Treatment Facilities

- **SEWER** odors
 - Call (502) 540-6000
 - 24 hours a day, 7 days per week



Odor Issues associated with MSD Facilities

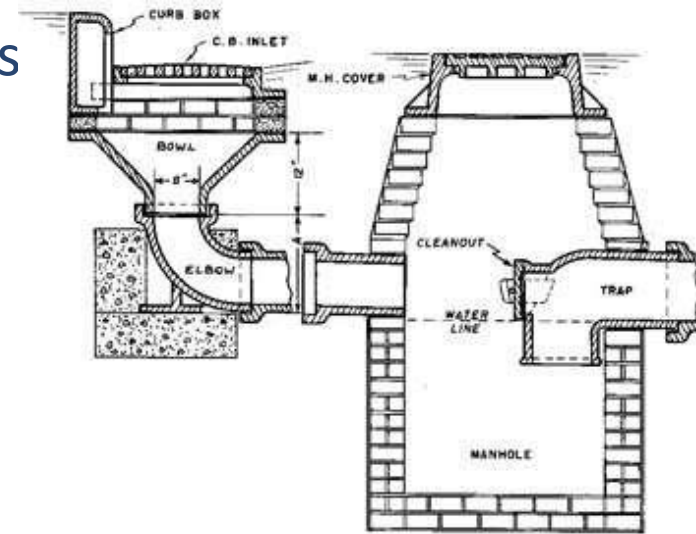
- Sewer System Odors
- Odor Areas
 - Water Quality Treatment Centers
 - Pump Stations and Force Mains
 - Combined Sewer System
- Odor Elimination or Mitigation Efforts
 - Current
 - Planned
- Odors in Buildings

Sewer System Odors

- What is that horrible smell – Hydrogen Sulfide is the primary odor related to municipal sewer systems
- Gases caused by anaerobic bacteria (influenced by dry weather and longer travel time in the system)
- Very unpleasant but generally not dangerous
- More noticeable as overall community odors are reduced
- Often difficult to locate due to incomplete descriptions or delay in reporting
- Public generally associates bad odors with sewer system

Combined Sewer System

- Approximately 680 miles of the largest oldest pipes in the sewer system
- More than 30,000 catch basins
- Dry weather results in increased travel times and increased wastewater strength along with traps in catch basins drying out
- Provisions for dealing with intense storm events
- Catch Basin Cleaning Program
- Odor Response



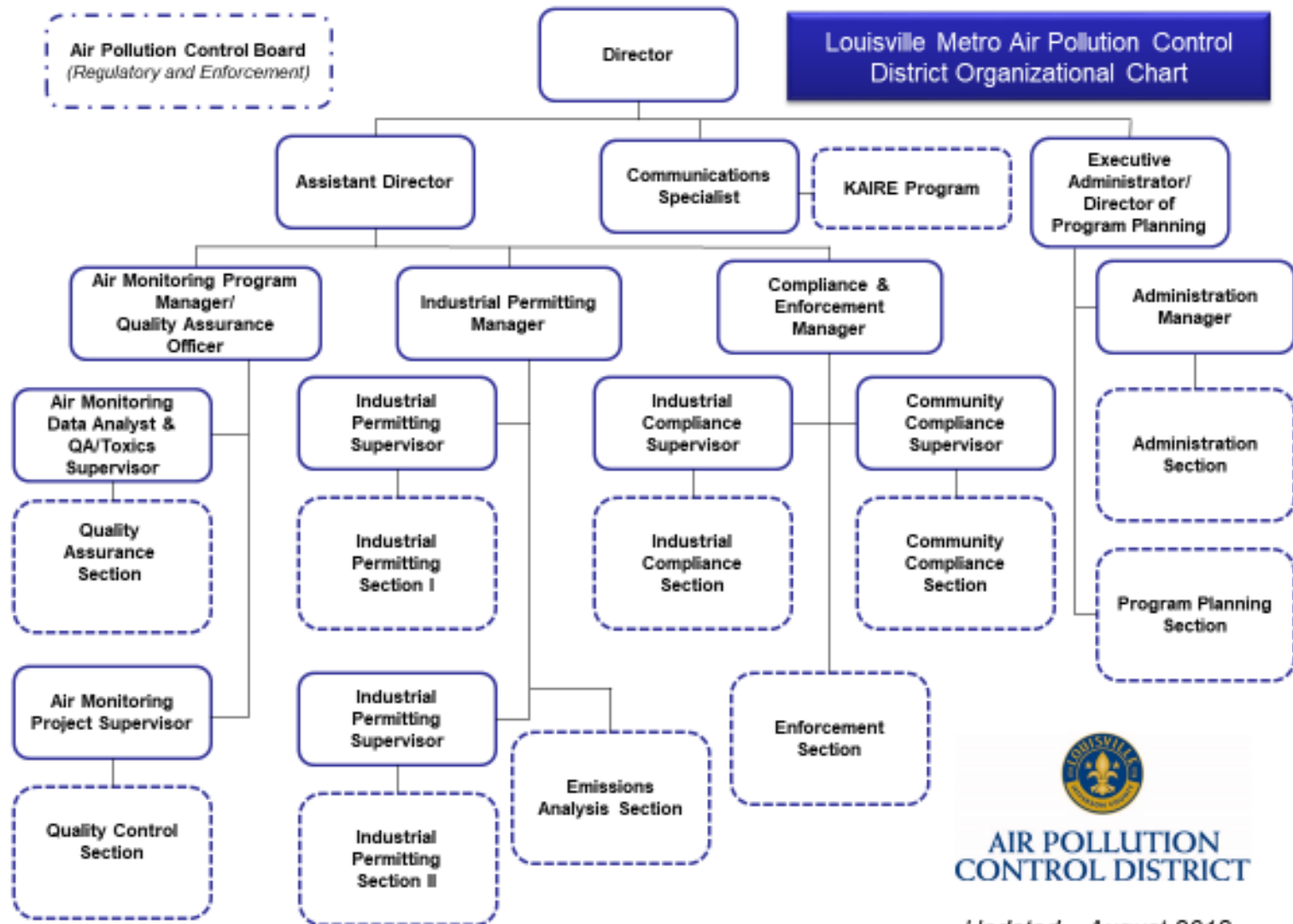
Odor Programs and Initiatives

- Full Service Odor Control Provider for Collections System
- Operations Response to Odor Complaints
 - Morris Forman WQTC and Regional WQTCs
 - Combined Sewer System
 - Sanitary Sewer System
- Enhanced Odor Control Program
 - Increased Public Outreach (RCAC, WJCCTF, Metro Council, Park DuValle POA)
 - Capital Projects Development
 - Envirosuite – Intelligence module (modeling odor sources using APCD weather station at Firearms Training Facility)

MSD Operations – Odor Concerns

- If you smell an **odor from sewer or treatment plant** – please **call MSD** as soon as possible with the **location, time, and any odor characteristics**
- MSD Customer Relations 24/7/365
 - 540-6000
 - 587-0603
- Questions????

Responding to Objectionable Odors



**AIR POLLUTION
CONTROL DISTRICT**

Updated – August 2018



Responding to Objectionable Odors

Once received, your complaint is:

- Logged into a database
- Shared with other responsible agencies
- Prioritized and assigned to APCD Compliance Officers

Your identity is confidential under the Kentucky Open Records Act. It may be “discoverable” as part of a pending legal action.

Responding to Objectionable Odors

Once assigned, an APCD Compliance Officer will investigate:

- They may call you first for additional information
- Travel to the location of the complaint



Responding to Objectionable Odors

Once at the location of the complaint, APCD will:

- Gather evidence of the reported odor's nature, location, duration, and intensity
- Determine the source of emissions, if possible
- If emissions from a facility, then enter and inspect, if possible, or refer to an APCD Industrial Compliance Engineer to inspect
- Follow-up with you

Responding to Objectionable Odors

After returning to the office, APCD will:

- Document the investigation and log it in a database
- Review internal systems for similar complaints or odor reports
- Collaborate with Industrial Compliance to determine potential sources if field investigation didn't find source
- Work with source to determine, and eliminate, cause of odor

Enforcement

- Take enforcement action as appropriate:
 - Bring the facility back into compliance
 - Example: MSD Bells Lane Treatment Facility
 - Issue a Notice of Noncompliance or Warning Letter
 - Issue a Notice of Violation; seek penalties to deter future noncompliance

Enforcement

- Investigations can take time
 - Example: JBS Swift & Co. – From 2007 to 2017:
 - 58 Incident/Investigations including both 117 days with documented odor and numerous permit violations
 - 6 [Agreed Board Orders](#) with \$345,850 of penalties



Responding to Hazardous Materials and Incidents

- Emergency Management Agency
(a division of Louisville Metro
Emergency Services)
- Public Health & Wellness



DEPARTMENT OF
**PUBLIC HEALTH
AND WELLNESS**



Why would EMA be notified?

- If there is a possible Search and Rescue (SAR) operation
- If there is a **hazardous material release**
- If there is an incident with possible terrorism nexus





Why would EMA be notified?

- If there is significant impact to the community:
 - Major Road Closure
 - Major Interruption of Utilities
 - Impending Severe Weather Event
 - Water Rescue for boaters, jumpers, etc.
 - Significant Fire Issue i.e. multi alarm, **high particulates in smoke**, etc.



What would EMA do?

- Emergency Management is a resource agency.
- We are the Metro's connection to the State.
- We maintain relationships with response agencies, businesses and citizens.
- Our employees are qualified in multiple response disciplines.

Louisville Metro Public Health & Wellness

Division of Environmental Health **Hazardous Materials Response Team**



DEPARTMENT OF
PUBLIC HEALTH
AND WELLNESS

Division of Environmental Health and Emergency

Hazardous Materials Response Team

Responds to hazardous material releases or spills
(chemical, biological or radiation) - 24 hours, 7 days a week

Hazardous Materials Ordinance Chapter 95

Health Regulations & Nuisances Chapter 96



DEPARTMENT OF
**PUBLIC HEALTH
AND WELLNESS**

Division of Environmental Health and Emergency

Hazardous Materials Response Team

Responses are made at the request of...

Fire

Police

Metro Safe

CSR



Whenever public health and safety is threatened.

Hazardous Materials Response Team

Program staff are trained to perform many functions during an incident

- Assess health impact during hazardous
- Assist responding agencies to ensure safety
- Conduct air monitoring
- Advise on proper clean up
- Ensure the proper clean up



Hazardous Materials Response Team

Staff respond to public complaints when NOT working a hazardous materials event.

- Improper disposal of hazardous waste
- Environmental crimes (illegal dumping on public lands and waterways)
- Indoor air quality (mold and other indoor contaminants)



Hazardous Materials Response Team

Response to manufacturing of illegal drugs.

- Staff assists with air monitoring once LMPD Narcotics secure the scene



- Issue an Order for Correction to the property owner for the cleanup of the meth lab
- Post & Monitor notices of contamination
- Ensure proper cleanup



Responding to Objectionable Odors: Agency Improvements

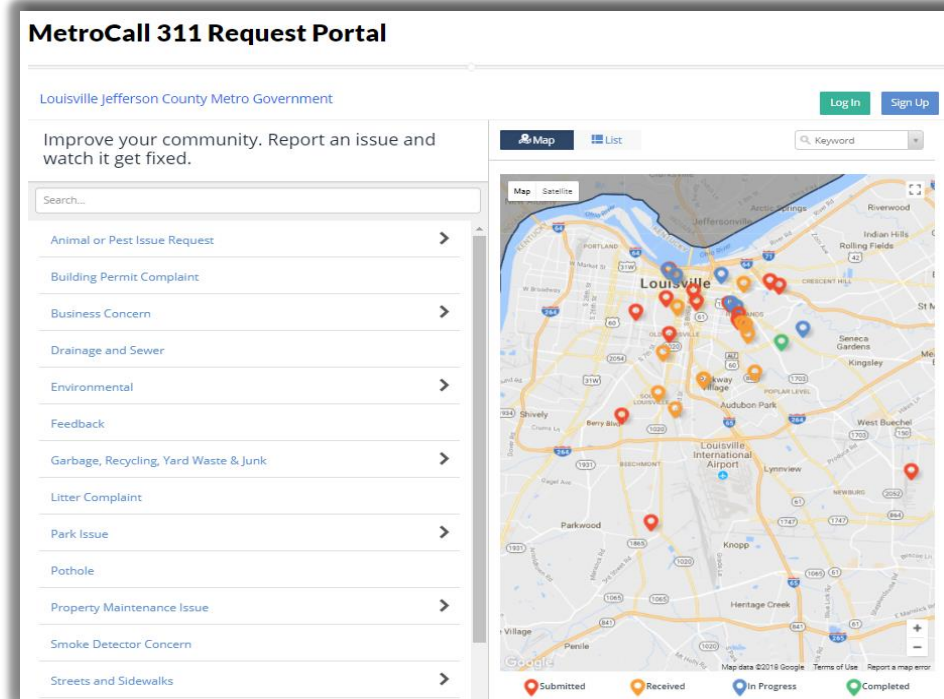
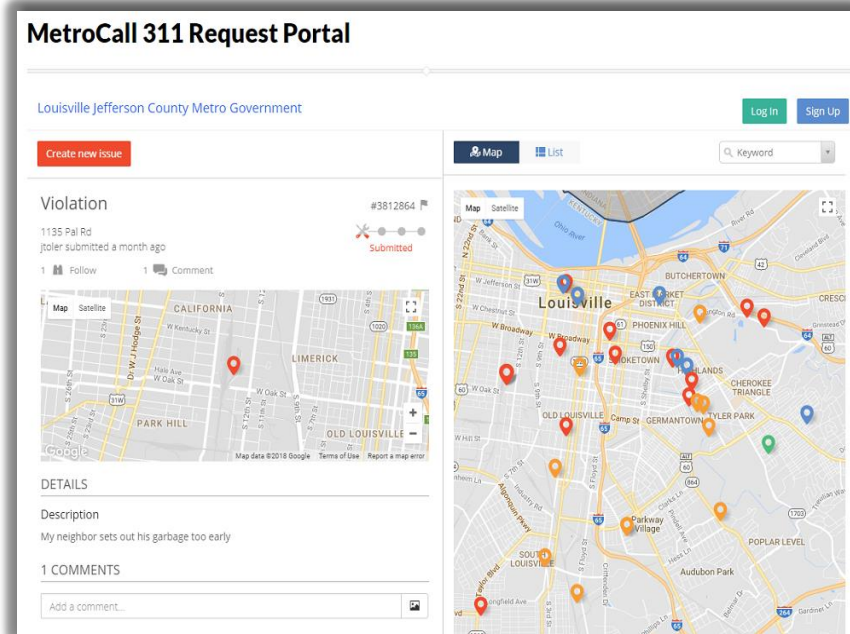
- New Metro-wide Information System (Citizen Portal)
- Odor log
- Interagency collaborations
 - MSD
 - EPA



AIR POLLUTION CONTROL DISTRICT									
ODOR LOG									
INTENSITY SCALE									
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www.louisvilleky.gov/APCD

New Information System for Metro



Example of proposed
Louisville MetroCall 311
citizen portal

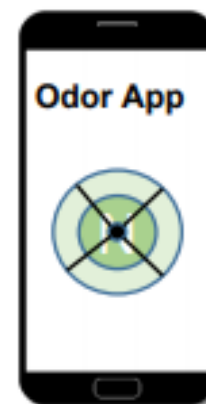
Interagency Collaborations

MSD

- Community outreach initiatives

EPA R.A.R.E. (Regional Applied Research Effort) Project

- Next Generation Emission Measurement (NGEM) program
- Odor Wheel App – Citizen Science Project



Resources

Air Pollution Control District

Louisvilleky.gov/APCD

Louisvilleky.gov/APCDBoard

Louisvilleky.gov/BoardOrders

Environmental Protection Agency (EPA)

EPA.gov

EPA.gov/Region4

Agency for Toxic Substances and Disease Registry

Atsdr.cdc.gov/odors

MSD – Odor Control

Louisvillemsd.org

MetroCall 311

Louisvilleky.gov/MetroCall-311

Louisville Metro Public Health & Wellness

Louisvilleky.gov/health-wellness

Emergency Management Agency

Louisvilleky.gov/EMA

Questions?

Louisville Metro Air Pollution Control District

701 W. Ormsby Ave.

Ste. 303

Louisville, Ky. 40203

(502) 574-6000

www.louisvilleky.gov/APCD

Keith H. Talley Sr., Director